

Message Text

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TO AMEMBASSY OTTAWA

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C O N F I D E N T I A L STATE 000544

EO 11652:ADS-UNCLASSIFIED UPON COMPLETION OF NEGOTIATIONS

TAGS: MILI, CA, US

SUBJECT: EXTENSION OF OPERATING RIGHTS - PROJECT 7663

REFS: (A) STATE 180237, 16 AUG 1974

(B) OTTAWA 3652, 7 NOV 1974

1. REF A REQUESTED THAT EMBASSY SEEK GOC APPROVAL FOR EXTENSION OF PROJECT 7663 OPERATING RIGHTS. BY EXCHANGE OF NOTES (REF B), GOC APPROVED THE EXTENSION OF OPERATING RIGHTS FOR PROJECT 7663 RELATING TO IONOSPHERIC INHOMOGENEITIES THROUGH 31 DECEMBER 1975.

2. THE AIR FORCE CAMBRIDGE RESEARCH LABORATORY (AFCRL) PLANS TO CONTINUE PROJECT 7663 TO GAIN BETTER UNDERSTANDING OF THE DYNAMIC PROCESSES OF THE IONOSPHERE AND ITS INTERACTIONS WITH THE MAGNETOSPHERE. PROPER UNDERSTANDING OF THESE PROCESSES AND INTERACTIONS WILL MAKE POSSIBLE THE PREDICTION, MONITORING AND MODELLING OF A CRITICAL
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ENVIRONMENTAL REGION FOR A NUMBER OF AIR FORCE SYSTEMS.

THE IDENTIFICATION OF SUBSTORM PRECURSORS, BASIC TYPES OF SUBSTORMS, IONOSPHERIC F-LAYER TROUGH MODELLING, DEFINITION OF LARGE SCALE IONOSPHERIC GRADIENTS, THE MORPHOLOGY AND DYNAMICS OF THE AURORAL OVAL AND POLAR CAP AURORA ARE THE MAJOR AREAS OF STUDIES AND EXPERIMENTS

UNDER THIS PROJECT. THE STUDIES ARE CARRIED OUT THROUGH DATA OBTAINED FROM THE AIRBORNE IONOSPHERIC OBSERVATORY (AIO) AND THE GOOSE BAY IONOSPHERIC OBSERVATORY (GBIO).

3. THE GBIO IS A RESEARCH IONOSONDE STATION OPERATED UNDER CONTRACT BY THE CANADIAN MARCONI CORPORATION AND SUBJECT TO THE PROVISIONS OF THE GOOSE BAY AGREEMENT OF 30 JUNE 1973. THE STATION IS OPERATED ON A REGULAR SCHEDULE OF 7 DAYS A WEEK BY SIX CANADIAN MARCONI EMPLOYEES. RADIO FREQUENCIES REQUIRED BY THE GBIO HAVE BEEN APPLIED FOR.

4. THE AIO IS A NKC-135 (SN 53131) EQUIPPED WITH A GRANGER SOUNDER WITH DIGISONDE EXCITOR, 4-LINE SCANNING PHOTOMETER, VISIBLE AND INFRARED SPECTROMETERS, LORAN A, LF/HF/VHF RECEIVERS, 16 AND 35MM ALL SKY CAMERAS, AND RELATED TIMING AND RECORDING EQUIPMENT. THE AIRCREW WILL CONSIST OF 10 U.S. MILITARY WHILE THE SCIENTIFIC CREW WILL CONSIST OF 3 TO 8 DOD CIVILIAN EMPLOYEES AND 1 TO 4 U.S. MILITARY. ALL PERSONNEL ON THE FLIGHTS WILL BE U.S. CITIZENS.

5. THE PROJECT AND DATA OBTAINED ARE UNCLASSIFIED. THE DATA IS RELEASABLE TO GOC IN ACCORDANCE WITH PREVIOUS AGREEMENT OR TO OTHER CANADIAN AGENCIES UPON REQUEST. THE RESEARCH SHOULD BE OF INTEREST TO ALL CANADIAN AGENCIES CONCERNED WITH POLAR IONOSPHERIC COMMUNICATIONS PROBLEMS.

6. REQUEST EMBASSY SEEK EXTENSION, THROUGH 31 DECEMBER 1977, OF THE GOC APPROVAL FOR OVERFLIGHTS AND OPERATION OF THE TEST AIRCRAFT AS REQUIRED IN SUPPORT OF PROJECT 7663 AS WELL AS THE OPERATION OF THE GOOSE BAY IONOSPHERIC OBSERVATORY DURING THE SAME PERIOD. THE NEXT FLIGHT IN

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SUPPORT OF THIS PROJECT IS PLANNED FOR 23 JANUARY 1976. SPECIFIC INFORMATION CONCERNING EACH FLIGHT WILL BE FURNISHED BY THE OPERATING AGENCY IN ACCORDANCE WITH THE USAF FOREIGN CLEARANCE GUIDE.
ROBINSON

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